TAXAN

OWNER'S GUIDE

12-Inch Color Display Operation Manual

MODEL *VISION EX*

We strongly recommend that you read this manual carefully before you operate the "12-Inch Color Display." A thorough knowledge of the monitor will allow you to take full advantage of this product and to prevent misoperation.
Please keep this manual in an accessible place after you have read it, and refer to it whenever necessary. You will find this manual very useful as a reference guide.

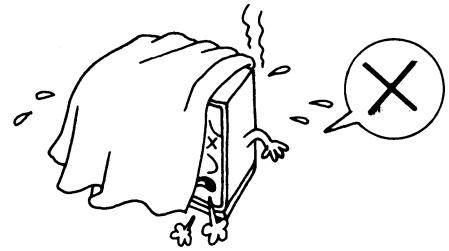
KAGA ELECTRONICS CO., LTD.

FOR SAFE OPERATION

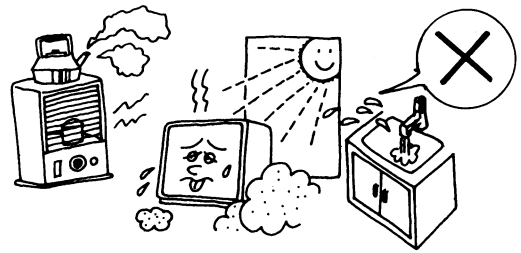
Do not remove screws on the front and rear sides.
The display unit uses a high-voltage power supply. Do not touch it. It is dangerous.
Do not put anything into the monitor.
Be careful that liquid spills, paper, paper clips, etc. do not fall into the monitor. This is dangerous and could damage the unit.
Do not damage the power cord.
Be careful not to put anything on the power cord. Hold the cord by the plug to pull it out.
Unplug the power cord if the monitor will not be used for some time.
You should remove the plug from the outlet if the office will be empty or if nobody will be home.
Do not use the monitor if it malfunctions.
At the first sign of trouble (smoke, unusual noises, strange smells), unplug the monitor immediately and notify your dealer.

PRECAUTIONS FOR HANDLING

Do not cover the ventilating holes.
The ventilating holes are provided to keep the inside of the monitor cool. Do not cover them. Try to use the monitor in a well-ventilated place.

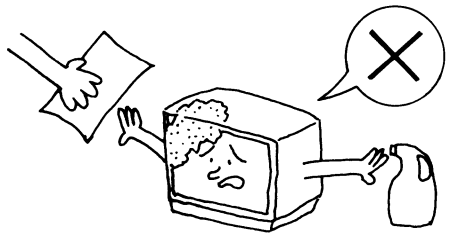


Do not use or store the monitor under any of the following conditions:
In high humidity.
Around soot, smoke, or gases.
In direct sunlight.
Near heating equipment.
In dusty areas.
Near a strong magnetic field.
In extreme cold.
In areas with violent vibration.
In unstable places, such as on a shaky stand or on a slant floor.



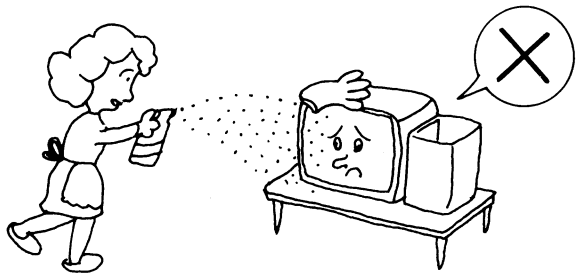
Clean the monitor with a soft cloth.

Use neutral detergent for tough stains. Do not use benzine, paint thinner, chemical dustcloths, or the like. Such materials can hurt the surface finish.



Do not apply volatile chemicals to the monitor.

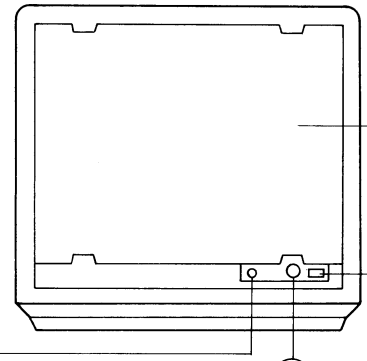
Insecticides or organic chemicals can damage rubber and vinyl components of the monitor and can mar the cabinet finish.



WARNING! After periods of extended operation at high temperature, turning off the computer will activate an X-ray protection circuit in the monitor cutting off its raster. To restore the raster for maintenance or adjustment of the monitor, turn off the monitor AC power switch and wait for a while before turning it on again.

NAME AND FUNCTION OF EACH SECTION

Front side



(1) Filter screen

When placed over the monitor screen, this filter improves picture contrast and relieves eye fatigue.

(2) LED power indicator

This indicator lamp lights when power is supplied.

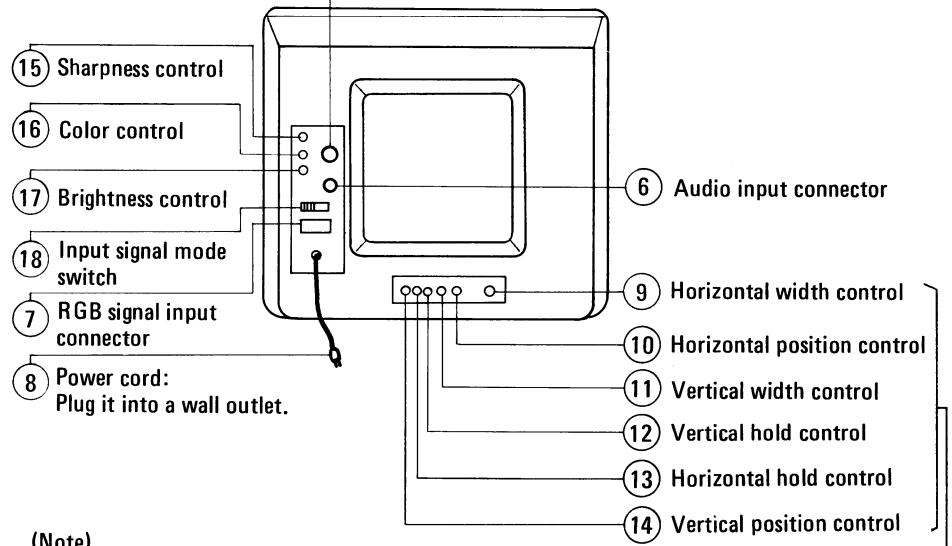
(4) Contrast control

Turning this control clockwise increases the contrast, and turning it counterclockwise decreases the contrast.

(3) Power switch/sound control

Turning this control clockwise turns on the power to the monitor. Turning it further increases the sound volume. Turn the control fully counterclockwise to turn the power to OFF.

Rear side



(Note)

(15) Sharpness control and (16) Color control effect only composite input signals. (Not operative for RGB input signals)

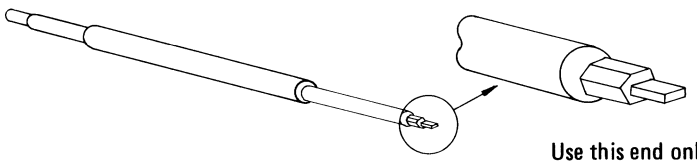
Refer to the section on INPUT SIGNAL.

⑮ Sharpness control
Turn this control for the sharpest picture.

⑯ Color control
Turn this control clockwise to increase the color level and counterclockwise to decrease it.

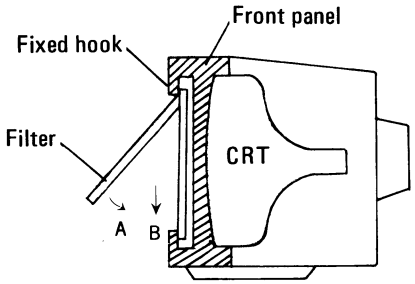
⑰ Brightness control
Turn this control clockwise to cause the picture to become brighter and counterclockwise to cause it to become darker.

*⑨–⑭: A special non-metallic tool is provided with the monitor to adjust these controls. Use the end with the short straight-edge.



Use this end only.

HOW TO INSTALL FILTER



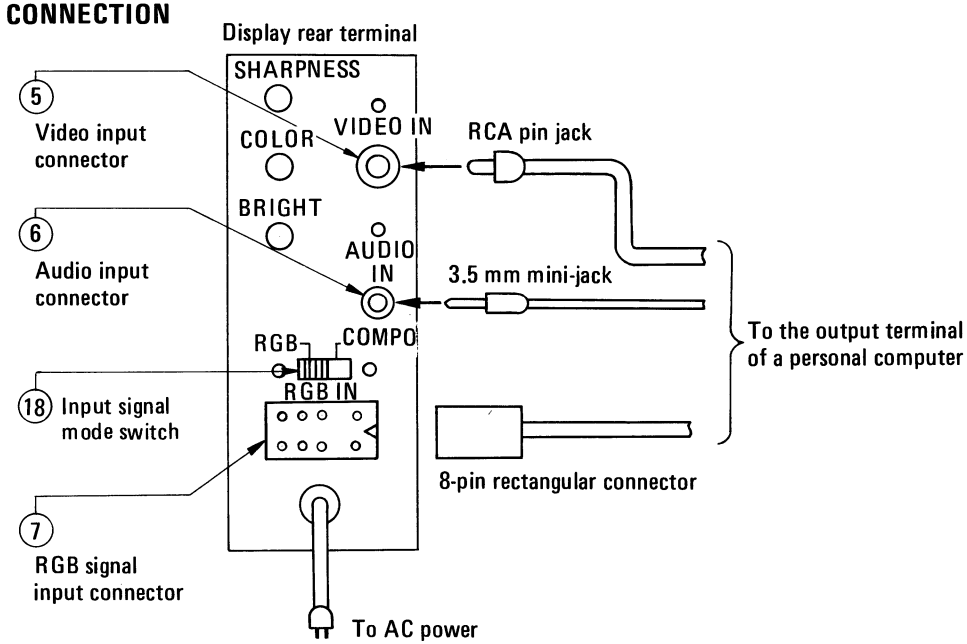
1. Insert the top of the filter onto the fixed hook.
2. Press the lower part of the filter onto the front panel.
3. Lower the filter into place.

*Use the reverse procedure to remove the filter.

NOTE:

This monitor is designed for linear signal input.
If a TTL-lever signal is input, the display screen flickers or black lines appear on the screen. This is caused by overloading by the signal. This is not a fault in the system.
Adjust the contrast control at the front of the display and the brightness control at the rear for the best display – characters should be clear and easy to read.
Operating the display in this condition without adjustment will affect the life of the CRT.

CONNECTION



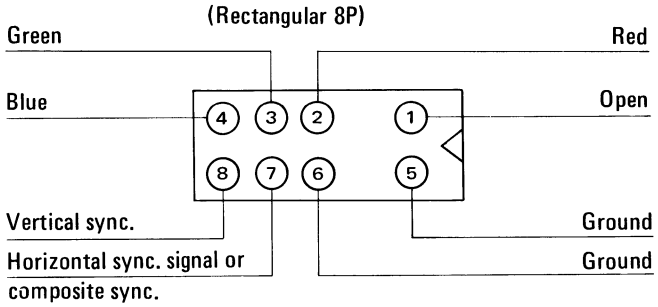
A. Connection with composite video output computer.
1. Set the ⑱ Input signal mode switch to the COMPO position.
2. Connect the video signal cable to the ⑤ Video input connector.
3. Turn on the power of both the computer and the monitor.
Adjust each control (④ Contrast, ⑰ Brightness, ⑮ Sharpness and ⑯ Color) according to necessity.

B. Connection with RGB video output computer.
1. Set the ⑱ Input signal mode switch to the RGB position.
2. Connect the RGB video signal cable to the ⑦ RGB signal input connector.
3. Turn on the power of both the computer and the monitor.
Adjust each control (④ Contrast, ⑰ Brightness) according to necessity.

NOTE: Connection cables for personal computers are marketed separately. For details, please contact your dealer.

PRECAUTION! Connect only one signal (a composite signal or an RGB signal) to the monitor input. Be sure to set the input signal mode switch for the type of signal input.

C. Pin layout of RGB signal input connector

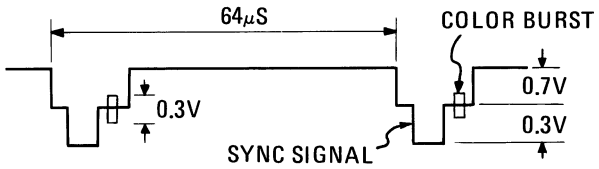


INPUT SIGNAL

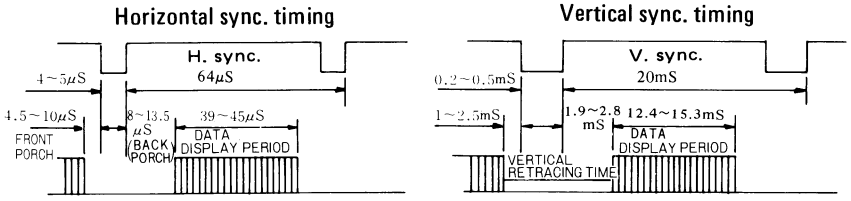
The synchronous signal depends on the computer connected to the monitor. In some cases, the picture abnormalities shown below may appear. This display has adjustment functions, but they may not be able to compensate for large abnormalities. Please note that this is not a problem of the display monitor.

Recommended signal timing chart

- Composite



- RGB



- Phenomena and adjustment.

PHENOMENA			CONTROLS
PICTURE WIDTH	TOO WIDE	TOO NARROW	(9) H. SIZE — NARROWER / WIDER
PICTURE DEVIATION	TOO RIGHT	TOO LEFT	(10) H. POSITION — GO RIGHT / GO LEFT
	TOO UPWARD	TOO DOWNWARD	(14) V. POSITION — DOWNWARD / UPWARD
PICTURE HEIGHT	TOO SHORT	TOO HIGH	(11) V. SIZE — NARROWER / WIDER
LATERAL STRIPES			(13) H. HOLD
VERTICAL FLOWS			(12) V. HOLD

MAIN SPECIFICATIONS

CRT	:	Tension band type 12", 90° deflection, self-convergence Stripe trio pitch 0.63 mm
ICs	:	5 pcs
Transistors	:	19 pcs
Diodes	:	19 pcs
Input signal system	:	Separate RGB input or composite input (switched)
Input connector	:	8-pin rectangular (RGB input) RCA pin jack (composite input) 3.5 mm mini-jack (sound input)
Scanning frequency	:	Horizontal 15.625 KHz Vertical 50 Hz
Character display capacity	:	Composite input: 1,000 characters (5 x 7 dots, 40 char. x 25 lines) RGB input: 1,500 characters (5 x 7 dots, 60 char. x 25 lines)
Display color	:	More than 256 colors
Screen area	:	238 x 176 mm
Power	:	KS12R102-A 240V AC 50 Hz KS12R102-B 240V AC 50 Hz KS12R102-E 220V AC 50 Hz
Power consumption	:	65 W
Dimensions	:	320(W) x 303(H) x 390(D) mm
Weight	:	12 kg

NOTE: Due to constant research, specifications are subject to change without notice.

KAGA ELECTRONICS CO., LTD.

3-14-2, YUSHIMA, BUNKYO-KU, TOKYO 113, JAPAN

TEL : 03-836-5521